

## **Soil deformation and shear strength characteristics of the Sana'a soil, Yemen Arab Republic**

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**Abstract:** Deformation and strength characteristics of the soil of Sana'a, the Yemen Arab Republic, were investigated. Undisturbed soil samples were collected from different stations and used in consolidation, collapse and strength tests. The classical and critical state compressibility parameters were determined using a one-dimensional consolidation test. The collapsing potential of the investigated soil was determined by using both qualitative and quantitative analysis. Consolidated undrained triaxial tests were carried out on two different types of samples: saturated samples and samples at natural moisture content.